| | | | |
|---|---|---|---|
| 1 | S4 and suction | US-PGPUB; USPAT | 2/23/05 |
| 10 | S30 and S25 | US-PGPUB; USPAT | 2/23/05 |
| 3 | S27 not S23 | US-PGPUB; USPAT | 2/23/05 |
| 0 | S25 and (sinker) | US-PGPUB; USPAT | 2/23/05 |
| 29 | S25 and (current with time) | US-PGPUB; USPAT | 2/23/05 |
| 9 | S25 and ((diffusion) with time) | US-PGPUB; USPAT | 2/23/05 |
| 22 | S13 and ring | US-PGPUB; USPAT | 2/23/05 |
| 0 | S13 and (sinker) | US-PGPUB; USPAT | 2/23/05 |
| 2 | S13 and (ring with current) | US-PGPUB; USPAT | 2/23/05 |
| 1 | S13 and (corner with diode) | US-PGPUB; USPAT | 2/23/05 |
| 0 | S13 and (corner with current) | US-PGPUB; USPAT | 2/23/05 |
| 0 | S13 and (corner with (gnd or ground)) | US-PGPUB; USPAT | 2/23/05 |
| 1 | S13 and ((edge or corner) with time) | US-PGPUB; USPAT | 2/23/05 |
| 6 | S13 and ((diffusion) with time) | US-PGPUB; USPAT | 2/23/05 |
| 1 | S13 and ((annular or concentric or circular) with current) | US-PGPUB; USPAT | 2/23/05 |
| 2 | S10 and (up near2 diffusion) | US-PGPUB; USPAT | 2/23/05 |
| 2 | S10 and (suction adj diode) | US-PGPUB; USPAT | 2/23/05 |
| 6 | (257/443.ccls.) and suction | US-PGPUB; USPAT | 2/23/05 |
| 0 | (257/443.ccls.) and (leakage with (gnd or ground)) | US-PGPUB; USPAT | 2/23/05 |
| 20 | (257/443.ccls.) and (current with (gnd or ground)) | US-PGPUB; USPAT | 2/23/05 |
| 6 | (257/443.ccls.) and (corner with diode) | US-PGPUB; USPAT | 2/23/05 |
| 4 | ("4904861" "4998013" "5408122" "5430321").pn. | US-PGPUB; USPAT | 2/23/05 |
| 1 | 20040222482 | US-PGPUB; USPAT | 2/23/05 |
| 10 | 5430321 | US-PGPUB; USPAT | 2/23/05 |
| 4 | 5408122 | US-PGPUB; USPAT | 2/23/05 |
| 10 | S47 not S45 | US-PGPUB; USPAT | 2/23/05 |
| 12 | S46 and (("257"/$3.cor.) or ("438"/$3.cor.)) | US-PGPUB; USPAT | 2/24/05 |
| 2 | S42 and (leakage with ("between" adj diode)) | US-PGPUB; USPAT | 2/24/05 |
| 0 | S32 and (minority with (reduce or reduction or reducing or minimize or minimized or m | US-PGPUB; USPAT | 2/24/05 |
| 0 | S32 and (leakage with sinker) | US-PGPUB; USPAT | 2/24/05 |
| 0 | S32 and (leakage with (reduce or reduction or reducing or minimize or minimized or m | US-PGPUB; USPAT | 2/24/05 |

| | | | |
|---|---|---|---|
| 1 | S32 and (leakage with (reduce or reduction or reducing or minimize or minimized or m | US-PGPUB; USPAT | 2/24/05 |
| 7 | S32 and (leakage with (reduce or reduction or reducing or minimize or minimized or m | US-PGPUB; USPAT | 2/24/05 |
| 7 | S32 and ((cross$1talk or (cross adj talk)) with diode) | US-PGPUB; USPAT | 2/24/05 |
| 18 | 4031607 "398762" | US-PGPUB; USPAT | 2/24/05 |
| 1 | 20040222482 and suction | US-PGPUB; USPAT | 2/24/05 |
| 16 | (minority with ("between" adj diode)) | US-PGPUB; USPAT | 2/24/05 |
| 32 | (leakage with ("between" adj diode)) | US-PGPUB; USPAT | 2/24/05 |
| 0 | ((front$1side or front) with (illuminate or illumination or illuminating or illuminated)) and | US-PGPUB; USPAT | 2/24/05 |
| 87 | S95 and (substrate.clm.) | USPAT | 2/27/05 |
| 6 | S95 and (@py="2004") and (substrate.clm.) | USPAT | 2/27/05 |
| 10 | S91 and (substrate.clm.) | US-PGPUB; USPAT | 2/27/05 |
| 28 | S88 and (substrate.clm.) | US-PGPUB; USPAT | 2/27/05 |
| 28 | S88 and (substrate.clm.) | US-PGPUB; USPAT | 2/27/05 |
| 0 | S84 and ( (cross$1talk or (cross adj talk) or noise) with (photo$1diode or (photo adj dio | US-PGPUB; USPAT | 2/27/05 |
| 15 | S78 not S79 | US-PGPUB; USPAT | 2/27/05 |
| 13 | S75 not S72 | US-PGPUB; USPAT | 2/27/05 |
| 9 | S73 and (cross$1talk or (cross adj talk) or noise ) | US-PGPUB; USPAT | 2/27/05 |
| 0 | S69 not S67 | US-PGPUB; USPAT | 2/27/05 |
| 3 | S64 and ((diode adj (reduce or reduced or reduction or reducing or minimize or minimi | US-PGPUB; USPAT | 2/27/05 |
| 3 | S64 and ((diode adj (reduce or reduced or reduction or reducing or minimize or minimi | US-PGPUB; USPAT | 2/27/05 |
| 3 | S64 and ((diode adj (reduce or reduced or reduction or reducing or minimize or minimi | US-PGPUB; USPAT | 2/27/05 |
| 1 | S64 and (((reduce or reduced or reduction or reducing or minimize or minimized or mir | US-PGPUB; USPAT | 2/27/05 |
| 0 | S61 not S60 | US-PGPUB; USPAT | 2/27/05 |
| 13 | S55 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 2/27/05 |
| 25 | S32 and (minority with (reduce or reduction or reducing or minimize or minimized or m | US-PGPUB; USPAT | 2/27/05 |
| 2 | S108 not S104 | US-PGPUB; USPAT | 2/27/05 |
| 4 | S105 not55 | US-PGPUB; USPAT | 2/27/05 |
| 1 | S105 not S104 | US-PGPUB; USPAT | 2/27/05 |
| 0 | (scribe with (cross$1talk or (cross adj talk) or noise) ) and S64 | US-PGPUB; USPAT | 2/27/05 |
| 16 | (scribe with (cross$1talk or (cross adj talk) or noise) ) | US-PGPUB; USPAT | 2/27/05 |
| 1 | (dummy with (cross$1talk or (cross adj talk)) with (photo$1diode or (photo adj diode)) ) | US-PGPUB; USPAT | 2/27/05 |

| # | Query | Database | Date |
|---|---|---|---|
| 14 | (dummy with (cross$1talk or (cross adj talk) or noise) with (photo$1diode or (photo adj | US-PGPUB; USPAT | 2/27/05 |
| 4 | (dummy with (cross$1talk or (cross adj talk) or noise) ) and S99 | US-PGPUB; USPAT | 2/27/05 |
| 5 | (dummy with (cross$1talk or (cross adj talk) or noise) ) and S78 | US-PGPUB; USPAT | 2/27/05 |
| 7 | (dummy with (cross$1talk or (cross adj talk) or noise) ) and (light.ab.) and (("257"/$3.cc | US-PGPUB; USPAT | 2/27/05 |
| 0 | (dummy with (cross$1talk or (cross adj talk) or noise) ) and (257/447.ccls.) | US-PGPUB; USPAT | 2/27/05 |
| 0 | (dummy with (cross$1talk or (cross adj talk) or noise) ) and (257/444.ccls.) | US-PGPUB; USPAT | 2/27/05 |
| 1 | (dummy with (cross$1talk or (cross adj talk) or noise) ) and (257/431.ccls.) | US-PGPUB; USPAT | 2/27/05 |
| 0 | (dummy with (cross$1talk or (cross adj talk) or noise) ) and ((photo$1diode or (photo a | US-PGPUB; USPAT | 2/27/05 |
| 4 | (dummy with (cross$1talk or (cross adj talk) or noise) ) and ((image$1sensor or image$ | US-PGPUB; USPAT | 2/27/05 |
| 20 | (dummy with (array or matrix) with (photo$1diode or (photo adj diode)) ) | US-PGPUB; USPAT | 2/27/05 |
| 2 | ((front$1side or front) ) and S49 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 2/27/05 |
| 6 | ("3978343" | "5812030" | "5828178" | "5952883" | "6201235" | "6246284").PN. | US-PGPUB; USPAT; USOc | 2/27/05 |
| 10 | ("3757128" | "4259570" | "4266125" | "4293877" | "4341956" | "4451731" | "4630121" | " | US-PGPUB; USPAT; USOc | 2/27/05 |
| 9 | (cross$1talk or (cross adj talk)) with diode with interval) | US-PGPUB; USPAT | 2/27/05 |
| 4 | (cross$1talk or (cross adj talk)) with (photo$1diode or (photo adj diode)) with addition: | US-PGPUB; USPAT | 2/27/05 |
| 9 | (cross$1talk or (cross adj talk)) with (diode or (photo adj diode)) with interval) | US-PGPUB; USPAT | 2/27/05 |
| 6 | (cross$1talk or (cross adj talk)) with (diode or (photo adj diode)) with interval) | US-PGPUB; USPAT | 2/27/05 |
| 0 | (cross$1talk or (cross adj talk)) with (corner or middl | US-PGPUB; USPAT | 2/27/05 |
| 0 | (cross$1talk or (cross adj talk)) with (array or matrix or surface) with (diodes near spr | US-PGPUB; USPAT | 2/27/05 |
| 13 | (cross$1talk or (cross adj talk) or noise) near3 ("between" adj (photo$1diode or (photc | US-PGPUB; USPAT | 2/27/05 |
| 44 | (cross$1talk or (cross adj talk) or noise) near "between") and (257/443.ccls.) | US-PGPUB; USPAT | 2/27/05 |
| 13 | (array or matrix or surface) with (diode near spread)) | US-PGPUB; USPAT | 2/27/05 |
| 7 | ((dark adj current) near3 (reduce or reduction or reducing or minimize or minimized o | US-PGPUB; USPAT | 2/27/05 |
| 2 | ((dark adj current) near3 (array or matrix) ) with diodes) | US-PGPUB; USPAT | 2/27/05 |
| 13 | (((cross$1talk or (cross adj talk)) near3 (array or matrix) ) with diodes) | US-PGPUB; USPAT | 2/27/05 |
| 12 | 5602415 | US-PGPUB; USPAT | 2/27/05 |
| 12 | 5602415 | US-PGPUB; USPAT | 2/27/05 |
| 8 | 5567976 | US-PGPUB; USPAT | 2/27/05 |
| 1 | S84 and ( (photo$1diode or (photo adj diode)) ) | US-PGPUB; USPAT | 3/1/05 |
| 3 | S64 and ((diode adj (reduce or reduced or reduction or reducing or minimize or minimi | US-PGPUB; USPAT | 3/1/05 |
| 9 | S44 and (("257"/$3.cor.) or ("438"/$3.cor.)) | US-PGPUB; USPAT | 3/1/05 |

| 0 | S154 not S153 | US-PGPUB; USPAT | 3/1/05 |
|---|---|---|---|
| 5 | S152 and ( (photo$1diode or (photo adj diode)) ) | US-PGPUB; USPAT | 3/1/05 |
| 5 | S136 not S135 | US-PGPUB; USPAT | 3/1/05 |
| 18 | S128 and (("257"/$3.cor.) or ("438"/$3.cor.)) | US-PGPUB; USPAT | 3/1/05 |
| 2 | S124 and ( (photo$1detector or (photo adj detector)) ) | US-PGPUB; USPAT | 3/1/05 |
| 37 | S123 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/1/05 |
| 4 | S119 and ( (photo$1diode or (photo adj diode)) ) | US-PGPUB; USPAT | 3/1/05 |
| 37 | S118 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/1/05 |
| 44 | S113 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/1/05 |
| 0 | S112 not S114 | US-PGPUB; USPAT | 3/1/05 |
| 44 | S110 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/1/05 |
| 8 | (mask with (fish$1bone or (fish adj bone)) ) | US-PGPUB; USPAT | 3/1/05 |
| 2 | (257/443.ccls.) and S126 | US-PGPUB; USPAT | 3/1/05 |
| 3 | ((top) with ("p+" or "p.sup.+") ) and S134 | US-PGPUB; USPAT | 3/1/05 |
| 0 | ((hole) with (doped or doping or dopant or impurity) with sidewall) and (@ad<"2004031 | US-PGPUB; USPAT | 3/1/05 |
| 4 | ((hole) with (doped or doping or dopant or impurity) with side) and (@ad<"20040311" o | US-PGPUB; USPAT | 3/1/05 |
| 0 | ((hole) with ("p+" or "p.sup.+") with sidewall) and (@ad<"200403 | US-PGPUB; USPAT | 3/1/05 |
| 0 | ((hole) with ("p+" or "p.sup.+") with sidewall) and (@ad<"200403 | US-PGPUB; USPAT | 3/1/05 |
| 21 | ((hole) with ("p+" or "p.sup.+") with sidewall) and (@ad<"200403"" or @rlad<"200403 | US-PGPUB; USPAT | 3/1/05 |
| 7 | (bottom) with ("p+" or "p.sup.+") ) and S145 | US-PGPUB; USPAT | 3/1/05 |
| 1 | (bottom) with ("p+" or "p.sup.+") ) and S134 | US-PGPUB; USPAT | 3/1/05 |
| 3 | (back$1side or back) with ("p+") ) and S134 | US-PGPUB; USPAT | 3/1/05 |
| 18 | ((back$1side or back) with ("p+") ) and S132 | US-PGPUB; USPAT | 3/1/05 |
| 8 | ((back$1side or back) with ("p+" or "p.sup.+") ) and S134 | US-PGPUB; USPAT | 3/1/05 |
| 21 | (back$1side or back or bottom) with ("p+" or "p.sup.+") ) and S147 | US-PGPUB; USPAT | 3/1/05 |
| 2 | ("4903103" | "4914301").PN. | US-PGPUB; USPAT; USOC | 3/1/05 |
| 38 | ( (reduce or reduced or reduction or reducing or minimize or minimized or minimizatior | US-PGPUB; USPAT | 3/1/05 |
| 38 | ( (reduce or reduced or reduction or reducing or minimize or minimized or minimizatior | US-PGPUB; USPAT | 3/1/05 |
| 15 | ( (reduce or reduced or reduction or reducing or minimize or minimized or minimization | US-PGPUB; USPAT | 3/1/05 |
| 44 | ( (cross$1talk or (cross adj talk) or noise) near "between") and (257/443.ccls.) | US-PGPUB; USPAT | 3/1/05 |
| 2 | 5929499 | US-PGPUB; USPAT | 3/1/05 |

| | | | |
|---|---|---|---|
| 4 | 738847 | DERWENT | 3/1/05 |
| 11 | S277 not (S275 or S273 or S272) | US-PGPUB; USPAT | 3/2/05 |
| 0 | S275 not (S273 or S272) | US-PGPUB; USPAT | 3/2/05 |
| 8 | S273 not S272 | US-PGPUB; USPAT | 3/2/05 |
| 9 | S270 not S252 | US-PGPUB; USPAT | 3/2/05 |
| 21 | S268 not S252 | US-PGPUB; USPAT | 3/2/05 |
| 45 | S264 and (("257"/$3.ccls.) or ("438"/$3.ccls.)) | US-PGPUB; USPAT | 3/2/05 |
| 20 | S256 not S252 | US-PGPUB; USPAT | 3/2/05 |
| 8 | S253 not S252 | US-PGPUB; USPAT | 3/2/05 |
| 1 | S250 and ((back$1side or (back adj side)) with (mask or masked or masking or resist o | US-PGPUB; USPAT | 3/2/05 |
| 16 | S248 not S247 | US-PGPUB; USPAT | 3/2/05 |
| 11 | S246 and ((through$1hole or (through adj hole)) with (chip or wafer or substrate) ) | US-PGPUB; USPAT | 3/2/05 |
| 3 | S238 and ((circular or annular or concentric) with (anode or cathode) not (guard or gua | US-PGPUB; USPAT | 3/2/05 |
| 11 | S234 not S233 | US-PGPUB; USPAT | 3/2/05 |
| 0 | S231 and schottky | US-PGPUB; USPAT | 3/2/05 |
| 9 | S231 and (("250"/$3.ccls.) or ("257"/$3.ccls.) or ("438"/$3.ccls.)) | US-PGPUB; USPAT | 3/2/05 |
| 11 | S231 and (( photo$1detector or ((photo or light or image or radiation) adj (detector or d | US-PGPUB; USPAT | 3/2/05 |
| 0 | S226 and ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1s | US-PGPUB; USPAT | 3/2/05 |
| 20 | S226 and ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1s | US-PGPUB; USPAT | 3/2/05 |
| 12 | S222 and schottky | US-PGPUB; USPAT | 3/2/05 |
| 0 | S222 and (ring with (anode or cathode) not (guard or guarding)) | US-PGPUB; USPAT | 3/2/05 |
| 3 | S217 not S215 | US-PGPUB; USPAT | 3/2/05 |
| 6 | S210 and ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1s | US-PGPUB; USPAT | 3/2/05 |
| 2 | S205 and ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1s | US-PGPUB; USPAT | 3/2/05 |
| 37 | S204 not S199 | US-PGPUB; USPAT | 3/2/05 |
| 19 | S198 and schottky | US-PGPUB; USPAT | 3/2/05 |
| 0 | S198 and (solar.ab.) | US-PGPUB; USPAT | 3/2/05 |
| 2 | S195 and schottky | US-PGPUB; USPAT | 3/2/05 |
| 19 | S189 not S185 | US-PGPUB; USPAT | 3/2/05 |
| 0 | S187 not S185 | US-PGPUB; USPAT | 3/2/05 |
| 25 | S186 and cathode and anode | US-PGPUB; USPAT | 3/2/05 |

| | | | |
|---|---|---|---|
| 17 | S185 and cathode and anode | US-PGPUB; USPAT | 3/2/05 |
| 17 | S184 and cathode and anode | US-PGPUB; USPAT | 3/2/05 |
| 0 | S176 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di | US-PGPUB; USPAT | 3/2/05 |
| 35 | S173 not S169 | US-PGPUB; USPAT | 3/2/05 |
| 3 | S173 and schottky | US-PGPUB; USPAT | 3/2/05 |
| 1 | S170 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di | US-PGPUB; USPAT | 3/2/05 |
| 20 | S168 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di | US-PGPUB; USPAT | 3/2/05 |
| 5 | S166 not S165 | US-PGPUB; USPAT | 3/2/05 |
| 5 | S152 and ( (photo$1detector or (photo adj detector)) ) | US-PGPUB; USPAT | 3/2/05 |
| 11 | 5494833 "5541438" | US-PGPUB; USPAT | 3/2/05 |
| 1 | 20040222482 and (mask) | US-PGPUB; USPAT | 3/2/05 |
| 1 | 20040222482 and (cathode or anode or electrode) | US-PGPUB; USPAT | 3/2/05 |
| 0 | ((through$1hole) with (doped or doping or dopant or impurity or dope) ) and (@ad<"20( | US-PGPUB; USPAT | 3/2/05 |
| 0 | ((through$1hole) near3 (doped or doping or dopant or impurity or dope) ) and (@ad<"2 | US-PGPUB; USPAT | 3/2/05 |
| 0 | ((through$1hole) near2 (doped or doping or dopant or impurity or dope) ) and (@ad<"2 | US-PGPUB; USPAT | 3/2/05 |
| 6 | ((through$1hole) near2 (doped or doping or dopant or impurity or dope) ) and (@ad<"2 | US-PGPUB; USPAT | 3/2/05 |
| 0 | ((through$1hole) near (doped or doping or dopant or impurity or dope) ) and (@ad<"20 | US-PGPUB; USPAT | 3/2/05 |
| 1 | ((through$1hole) near (doped or doping or dopant or impurity or dope) ) and (@ad<"20 | US-PGPUB; USPAT | 3/2/05 |
| 4 | ((hole) with (doped or doping or dopant or impurity or dope) with side) and (@ad<"200 | US-PGPUB; USPAT | 3/2/05 |
| 1 | ((hole) near (doped or doping or dopant or impurity or dope) ) and (@ad<"200¢ | US-PGPUB; USPAT | 3/2/05 |
| 22 | (hole or through$1hole or via$1hole) with ( anode or cathode ) not electron) and S255 | US-PGPUB; USPAT | 3/2/05 |
| 4 | ((front$1side or front or top or top$1side) with ("p+" or "p.sup.+") ) and S180 | US-PGPUB; USPAT | 3/2/05 |
| 30 | ((front$1side or front or top or top$1side) with ("p+" or "p.sup.+")) and (@ad<"200403 | US-PGPUB; USPAT | 3/2/05 |
| 38 | ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1side or fron | US-PGPUB; USPAT | 3/2/05 |
| 88 | ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1side or fron | US-PGPUB; USPAT | 3/2/05 |
| 7 | ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1side or fron | US-PGPUB; USPAT | 3/2/05 |
| 1 | ((back$1side or back) with anode with cathode ) and S183 | US-PGPUB; USPAT | 3/2/05 |
| 0 | ((back$1side or (back adj side)) with anode with cathode ) and (solar.ab. ) | US-PGPUB; USPAT | 3/2/05 |
| 4 | ((back$1side or (back adj side)) with anode with cathode ) and (@ad<"20040311" or @ | US-PGPUB; USPAT | 3/2/05 |
| 2 | ((back$1side or (back adj side)) with anode with cathode ) and ((front$1side or ((front o | US-PGPUB; USPAT | 3/2/05 |
| 3 | ((back$1side or (back adj side)) with anode with cathode ) and ((front o | US-PGPUB; USPAT | 3/2/05 |

| | Query | Database | Date |
|---|---|---|---|
| 3 | ((back$1side or (back adj side)) with anode with cathode ) and ((front$1side or ((front o | US-PGPUB; USPAT | 3/2/05 |
| 3 | ((back$1side or (back adj side)) with anode with cathode ) and ((front$1side or ((front o | US-PGPUB; USPAT | 3/2/05 |
| 36 | ((back$1side or (back adj side)) with (contact or electrode or bump or pad or anode or | US-PGPUB; USPAT | 3/2/05 |
| 4 | ((back$1side or (back adj side)) with (contact or electrode or bump or pad or anode or | US-PGPUB; USPAT | 3/2/05 |
| 4 | ((back$1side or (back adj side)) with (contact or electrode or bump or pad or anode or | US-PGPUB; USPAT | 3/2/05 |
| 5 | ((back$1side or (back adj side)) with (contact or electrode or bump or pad or anode or | US-PGPUB; USPAT | 3/2/05 |
| 23 | ((back$1side or (back adj side)) with (contact or electrode or bump or pad ) ) and S258 | US-PGPUB; USPAT | 3/2/05 |
| 11 | ((back$1side or (back adj side)) with (anode or cathode) ) and S255 | US-PGPUB; USPAT | 3/2/05 |
| 4 | ((257/458,656.ccls.)) and ((back$1side or (back adj side)) with (anode or cathode ) ) and ((257/458,656.ccls.)) | US-PGPUB; USPAT | 3/2/05 |
| 5 | ((257/458,656.ccls.)) and ((back$1side or (back adj side)) with ("p+" or "p.sup.+")) and | US-PGPUB; USPAT | 3/2/05 |
| 9 | ((257/458,656.ccls.)) and ((back$1side or (back adj side)) with ("p+" or "p.sup.+") and | US-PGPUB; USPAT | 3/2/05 |
| 1 | ( (photo$1detector or ((photo or light or image or radiation) adj (detector or diode or sei | US-PGPUB; USPAT | 3/2/05 |
| 33 | ( (photo$1detector or ((photo or light or image or radiation) adj (detector or diode or sei | US-PGPUB; USPAT | 3/2/05 |
| 20 | S294 not S293 | US-PGPUB; USPAT | 3/3/05 |
| 24 | S288 and (through$1hole or (through adj hole)) | US-PGPUB; USPAT | 3/3/05 |
| 0 | S288 and (ring with (cathode or anode) not (guard or guarding)) | US-PGPUB; USPAT | 3/3/05 |
| 4 | S288 and ((undoped or intrinsic) with (hole) ) | US-PGPUB; USPAT | 3/3/05 |
| 0 | S288 and ((undoped or intrinsic) with (anode or cathode) ) | US-PGPUB; USPAT | 3/3/05 |
| 1 | S288 and ((through$1hole or (through adj hole)) with (anode or cathode) ) | US-PGPUB; USPAT | 3/3/05 |
| 30 | S288 and ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1s | US-PGPUB; USPAT | 3/3/05 |
| 5 | S284 not S283 | US-PGPUB; USPAT | 3/3/05 |
| 26 | S279 not S280 | US-PGPUB; USPAT | 3/3/05 |
| 15 | S210 and ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1s | US-PGPUB; USPAT | 3/3/05 |
| 11 | 6111299 "5831322" "5757057" | US-PGPUB; USPAT | 3/3/05 |
| 15 | (pin with ( photo$1detector or ((photo or light or image or radiation) adj (detector or dio | US-PGPUB; USPAT | 3/3/05 |
| 15 | (pin with ( photo$1detector or ((photo or light or image or radiation) adj (detector or dio | US-PGPUB; USPAT | 3/3/05 |
| 28 | (pin with ( photo$1detector or ((photo or light or image or radiation) adj (detector or dio | US-PGPUB; USPAT | 3/3/05 |
| 4 | (array or matrix) with wafer with ( photo$1detector or ((photo or light or image or radia | US-PGPUB; USPAT | 3/3/05 |
| 17 | (array or matrix) with ( photo$1detector or ((photo or light or image or radiation) adj (d | US-PGPUB; USPAT | 3/3/05 |
| 1 | (array or matrix) with ( photo$1detector or ((photo or light or image or radiation) adj (d | US-PGPUB; USPAT | 3/3/05 |
| 9 | ((array or matrix) with ( photo$1detector or ((photo or light or image or radiation) adj (d | US-PGPUB; USPAT | 3/3/05 |

| | | | |
|---|---|---|---|
| 6 | udt.as. | | |
| 12 | S423 and (substrate or wafer or chip or die).clm. | US-PGPUB; USPAT | 3/5/05 |
| 36 | S422 not (S413 or S396 or S392 or S386 or S385 or S379 or S359 or S352 or S339 or US-PGPUB; USPAT | 3/5/05 |
| 36 | S419 not (S413 or S396 or S392 or S386 or S385 or S379 or S359 or S352 or S339 or US-PGPUB; USPAT | 3/5/05 |
| 36 | S418 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 1 | S416 and S410 | US-PGPUB; USPAT | 3/5/05 |
| 1 | S416 and (257/458.ccls.) | US-PGPUB; USPAT | 3/5/05 |
| 0 | S416 and (257/291.ccls.) | US-PGPUB; USPAT | 3/5/05 |
| 27 | S414 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 27 | S413 not (S396 or S392 or S386 or S385 or S379 or S359 or S352 or S339 or S333 or US-PGPUB; USPAT | 3/5/05 |
| 21 | S410 and (257/458.ccls.) | US-PGPUB; USPAT | 3/5/05 |
| 4 | S410 and (257/291.ccls.) | US-PGPUB; USPAT | 3/5/05 |
| 3 | S410 and ( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip or US-PGPUB; USPAT | 3/5/05 |
| 4 | S410 and ( (back$1side or (back adj side) or bottom or back) with (substrate or wafer or US-PGPUB; USPAT | 3/5/05 |
| 2 | S405 and S390 | US-PGPUB; USPAT | 3/5/05 |
| 2 | S405 and ( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip or US-PGPUB; USPAT | 3/5/05 |
| 3 | S405 and ( (back$1side or (back adj side) or bottom or back) with (substrate or wafer or US-PGPUB; USPAT | 3/5/05 |
| 2 | S396 not (S392 or S386 or S385 or S379 or S359 or S352 or S339 or S333 or S318 or US-PGPUB; USPAT | 3/5/05 |
| 3 | S392 not (S386 or S385 or S379 or S359 or S352 or S339 or S333 or S318 or S311 or US-PGPUB; USPAT | 3/5/05 |
| 9 | S391 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 27 | S388 not S385 | US-PGPUB; USPAT | 3/5/05 |
| 29 | S387 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 31 | S386 not (S379 or S359 or S352 or S339 or S333 or S318 or S311 or S306 or S301) | US-PGPUB; USPAT | 3/5/05 |
| 41 | S379 not (S359 or S352 or S339 or S333 or S318 or S311 or S306 or S301) | US-PGPUB; USPAT | 3/5/05 |
| 3 | S374 and (photo$1diode or (photo adj diode)) | DERWENT | 3/5/05 |
| 0 | S372 not S371 | US-PGPUB; USPAT | 3/5/05 |
| 3 | S368 and ( ( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip or US-PGPUB; USPAT | 3/5/05 |
| 3 | S368 and ( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip or US-PGPUB; USPAT | 3/5/05 |
| 7 | S365 and S362 | US-PGPUB; USPAT | 3/5/05 |
| 11 | S362 and ( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip or US-PGPUB; USPAT | 3/5/05 |
| 4 | S359 not (S352 or S339 or S333 or S318 or S311 or S306 or S301) | US-PGPUB; USPAT | 3/5/05 |

| | | | |
|---|---|---|---|
| 11 | S358 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 11 | S357 and ((( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip c | US-PGPUB; USPAT | 3/5/05 |
| 11 | S357 and ( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip o | US-PGPUB; USPAT | 3/5/05 |
| 30 | S352 not (S339 or S333 or S318 or S311 or S306 or S301) | US-PGPUB; USPAT | 3/5/05 |
| 31 | S351 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 31 | S350 and ((( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip c | US-PGPUB; USPAT | 3/5/05 |
| 7 | S348 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 21 | S346 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 0 | S343 and ((( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip c | US-PGPUB; USPAT | 3/5/05 |
| 0 | S343 and ((( (back$1side or (back adj side) or bottom) near2 (substrate or wafer or chip | US-PGPUB; USPAT | 3/5/05 |
| 7 | S342 and ((front$1side or ((front or top ) adj (surface or side)) or top$surface or top$1s | US-PGPUB; USPAT | 3/5/05 |
| 13 | S339 not (S333 or S318 or S311 or S306 or S301) | US-PGPUB; USPAT | 3/5/05 |
| 5 | S338 and ((( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip c | US-PGPUB; USPAT | 3/5/05 |
| 5 | S334 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 27 | S333 not (S318 or S311 or S306 or S301) | US-PGPUB; USPAT | 3/5/05 |
| 3 | S331 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 8 | S328 not S326 | US-PGPUB; USPAT | 3/5/05 |
| 7 | S325 and ((( (back$1side or (back adj side) or bottom) with (substrate or wafer or chip c | US-PGPUB; USPAT | 3/5/05 |
| 2 | S320 and ((( (back$1side or (back adj side) or bottom) near (substrate or wafer or chip o | US-PGPUB; USPAT | 3/5/05 |
| 3 | S318 not (S311 or S306 or S301) | US-PGPUB; USPAT | 3/5/05 |
| 3 | S314 and ((back$1side or (back adj side)) with (doped or doping or dopant or impurity | US-PGPUB; USPAT | 3/5/05 |
| 1 | S313 and ((back$1side or (back adj side)) with (doped or doping or dopant or impurity | US-PGPUB; USPAT | 3/5/05 |
| 12 | S313 and ((( (back$1side or (back adj side) or bottom) near substrate) with (doped or d | US-PGPUB; USPAT | 3/5/05 |
| 9 | S311 and ( (photo$1detector or ((photo or light or image or radiation) adj (detector or | US-PGPUB; USPAT | 3/5/05 |
| 14 | S311 not (S306 or S301) | US-PGPUB; USPAT | 3/5/05 |
| 16 | S310 and ((back$1side or (back adj side)) with (doped or doping or dopant or impurity | US-PGPUB; USPAT | 3/5/05 |
| 8 | S308 and ( ( (back$1side or (back adj side) or bottom) near2 (substrate or wafer or chip | US-PGPUB; USPAT | 3/5/05 |
| 2 | S308 and (( (back$1side or (back adj side) or bottom) near (substrate or wafer or chip | US-PGPUB; USPAT | 3/5/05 |
| 5 | S306 not S301 | US-PGPUB; USPAT | 3/5/05 |
| 8 | S305 and ((back$1side or (back adj side)) with (doped or doping or dopant or impurity | US-PGPUB; USPAT | 3/5/05 |
| | S298 and (anode with cathode) | US-PGPUB; USPAT | 3/5/05 |

| 0 | S298 and ((ring or circular or annular or concentric) with (anode or cathode) not (guard | US-PGPUB; USPAT | 3/5/05 |
| 3 | S297 and ((back$1side or (back adj side)) with (doped or doping or dopant or impurity | US-PGPUB; USPAT | 3/5/05 |
| 11 | S246 and ((ring or circular or annular or concentric) with (anode or cathode) not (guard | US-PGPUB; USPAT | 3/5/05 |
| 28 | ccd and ((( (back$1side or (back adj side) or bottom) near (substrate or wafer or chip or | US-PGPUB; USPAT | 3/5/05 |
| 5 | 5981988 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/5/05 |
| 18 | 4814847 "4729963" | US-PGPUB; USPAT | 3/5/05 |
| 1 | 257/443.ccls. and S362 | US-PGPUB; USPAT | 3/5/05 |
| 21 | 257/443. ccls. and ((( (back$1side or (back adj side) or bottom) with (substrate or wafer | US-PGPUB; USPAT | 3/5/05 |
| 6 | 11017589 "06045576" "2001119010" "10282243" "10012851" "2001078099" | JPO | 3/5/05 |
| 7 | 07333348 "10223873" "2001291892" "06163968" "04241458" "0515 0049" | JPO | 3/5/05 |
| 6 | 07333348 "10223873" "2001291892" "06163968" "04241458" "0515 0049" | DERWENT | 3/5/05 |
| 8 | (electrode with (through$1hole or (through adj hole)) ) and (257/458.ccls.) | US-PGPUB; USPAT | 3/5/05 |
| 15 | (electrode with (hole) not electron) and (257/458.ccls.) | US-PGPUB; USPAT | 3/5/05 |
| 17 | (257/463.ccls.) and ( (back$1side or (back adj side) or bottom) with (substrate or wafer | US-PGPUB; USPAT | 3/5/05 |
| 0 | (257/458,459.ccls.) and ( (back$1side or (back adj side) or bottom) with (substrate or w | US-PGPUB; USPAT | 3/5/05 |
| 0 | (257/431.ccls.) and ( (back$1side or (back adj side) or bottom) with (substrate or wafer | US-PGPUB; USPAT | 3/5/05 |
| 2 | (257/414.ccls.) and ( (back$1side or (back adj side) or bottom) with (substrate or wafer | US-PGPUB; USPAT | 3/5/05 |
| 6 | ((back$1side or (back adj side)) with anode with cathode ) and (((front$1side or ((front o | US-PGPUB; USPAT | 3/5/05 |
| 20 | ((back$1side or (back adj side)) with (contact or electrode or bump or pad or anode or | US-PGPUB; USPAT | 3/5/05 |
| 33 | ((back$1side or (back adj side) or bottom) with ("p+" or "p.sup.+") and (( back$1side o | US-PGPUB; USPAT | 3/5/05 |
| 19 | ((back$1side or (back adj side) or bottom) with ("p+" or "p.sup.+" ) ) and (257/458.ccls. | US-PGPUB; USPAT | 3/5/05 |
| 43 | ((back$1side or (back adj side) or bottom or back) with ("p+" or "p.sup.+" ) ) and S410 | US-PGPUB; USPAT | 3/5/05 |
| 4 | ("4760273" | "4878102" | "5029321" | "5555520").PN. | US-PGPUB; USPAT; USOc | 3/5/05 |
| 7 | ("4327475" | "4482907" | "4617586" | "5029321" | "5055900" | "5400210" | "5495395").FUS-PGPUB; USPAT; USOc | 3/5/05 |
| 4 | ("2004 0222482" "2004 0222358" "6340831" "6043550").did. and ((back$1side or (back | US-PGPUB; USPAT | 3/5/05 |
| 3 | ("2003 0054585" | "5067985" | "6066510").PN. | US-PGPUB; USPAT | 3/5/05 |
| 2 | ( solar) and S395 | US-PGPUB; USPAT | 3/5/05 |
| 3 | ( pin with wafer with ( photo$1detector or ((photo or light or image or radiation) adj (det | US-PGPUB; USPAT | 3/5/05 |
| 37 | ( photo$1detector or ((photo or light or image or radiation) adj (detector or diode or sen | US-PGPUB; USPAT | 3/5/05 |
| 37 | ( photo$1detector or ((photo or light or image or radiation) adj (detector or diode or sen | US-PGPUB; USPAT | 3/5/05 |
| 2 | ( photo$1detector or ((photo or light or image or radiation) adj (detector or diode or sen | US-PGPUB; USPAT | 3/5/05 |

| Count | Query | Databases | Date |
|---|---|---|---|
| 8 | ( photo$1detector or ((photo or light or image or radiation) adj (detector or diode or sen | US-PGPUB; USPAT | 3/5/05 |
| 9 | ( photo$1detector or ((photo or light or image or radiation) adj (detector or diode or sen | US-PGPUB; USPAT | 3/5/05 |
| 4 | ( photo$1detector or ((photo or light or image or radiation) adj (detector or diode or sen | US-PGPUB; USPAT | 3/5/05 |
| 11 | ( ( photo$1detector or ((photo or light or image or radiation) adj (detector or diode or se | US-PGPUB; USPAT | 3/5/05 |
| 2 | 4720627 | US-PGPUB; USPAT | 3/5/05 |
| 14 | 4131984 | US-PGPUB; USPAT | 3/5/05 |
| 1 | S471 not S469 | US-PGPUB; USPAT | 3/10/05 |
| 17 | S459 and ((chip or wafer or substrate).clm.) | US-PGPUB; USPAT | 3/10/05 |
| 12 | S453 not (S450 or S444) | US-PGPUB; USPAT | 3/10/05 |
| 16 | S452 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/10/05 |
| 13 | S450 not S444 | US-PGPUB; USPAT | 3/10/05 |
| 43 | S449 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/10/05 |
| 9 | S447 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/10/05 |
| 9 | S446 not S443 | US-PGPUB; USPAT | 3/10/05 |
| 18 | S444 not citrus | US-PGPUB; USPAT | 3/10/05 |
| 30 | S443 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/10/05 |
| 1 | S441 and ((front$1illuminated or front$1illumination or front$1illuminate or top$1illumii | US-PGPUB; USPAT | 3/10/05 |
| 5 | S441 and (((top or front) adj (illuminated or illumination or illuminate)) ) | US-PGPUB; USPAT | 3/10/05 |
| 0 | S437 and ((front$1illuminated or front$1illumination or front$1illuminate or top$1illumii | US-PGPUB; USPAT | 3/10/05 |
| 1 | S437 and ((front$1illuminated or front$1illumination or front$1illuminate or top$1illumii | US-PGPUB; USPAT | 3/10/05 |
| 36 | S421 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/10/05 |
| 11 | ((front$1illuminated or front$1illumination or front$1illuminated or top$1illuminated or to | US-PGPUB; USPAT | 3/10/05 |
| 31 | ((front$1illuminated or front$1illumination or front$1illuminated or top$1illuminated or to | US-PGPUB; USPAT | 3/10/05 |
| 44 | ((front$1illuminated or front$1illumination or front$1illuminated or top$1illuminated or to | US-PGPUB; USPAT | 3/10/05 |
| 1 | ((front$1illuminated or front$1illumination or front$1illuminated or top$1illuminated or to | EPO; JPO; DERWENT | 3/10/05 |
| 16 | ((front$1illuminated or front$1illumination or front$1illuminated or top$1illuminated or to | US-PGPUB; USPAT | 3/10/05 |
| 4 | ((back$1side or (back adj side) or bottom) with ("p+" or "p.sup.+" or (p adj t | US-PGPUB; USPAT | 3/10/05 |
| 5 | ((back$1side or (back adj side) or bottom) with ("n+" or "n.sup.+" or (n adj t | US-PGPUB; USPAT | 3/10/05 |
| 4 | ((back$1side or (back adj side) or bottom) with ("n+" or "n.sup.+" or (n adj t | US-PGPUB; USPAT | 3/10/05 |
| 4 | ((back$1side or (back adj side) or bottom) with ("n+" or "n.sup.+" or (n adj t | US-PGPUB; USPAT | 3/10/05 |
| 6 | S488 not S487 | US-PGPUB; USPAT | 3/11/05 |

| 12 | S483 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/11/05 |
| 12 | S482 not S478 | US-PGPUB; USPAT | 3/11/05 |
| 35 | S480 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/11/05 |
| 16 | S477 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/11/05 |
| 1 | S472 not S470 | US-PGPUB; USPAT | 3/11/05 |
| 4 | 5889313 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/11/05 |
| 35 | 4618380 "4472728" | US-PGPUB; USPAT; USOC | 3/11/05 |
| 6 | ((both) with (mask or masked or masking) with (impurity or doped or dopant or doping ( US-PGPUB; USPAT | 3/11/05 |
| 27 | ((back$1side or (back adj side) or bottom) with (mask or masked or masking) with (impUS-PGPUB; USPAT | 3/11/05 |
| 16 | ((back$1side or (back adj side) or bottom) with (mask or masked or masking) with (impUS-PGPUB; USPAT | 3/11/05 |
| 4 | ((back$1side or (back adj side) or bottom) with ("p+" or "p.sup.+" or p$1type or (p adj t US-PGPUB; USPAT | 3/11/05 |
| 7 | ("4472728" | "4618380" | "5027182" | "5332903" | "5448082" | "5466954" | "5552596").FUS-PGPUB; USPAT; USOC | 3/11/05 |
| 8 | ("4079405" | "4616247" | "4857980" | "5040039" | "5252851" | "5315148" | "5418396" | 'US-PGPUB; USPAT; USOC | 3/11/05 |
| 8 | 4451842 | US-PGPUB; USPAT | 3/11/05 |
| 7 | S543 and (("257"/$3.ccls.) or ("438"/$3.ccls.)) | US-PGPUB; USPAT | 3/14/05 |
| 13 | S540 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di US-PGPUB; USPAT | 3/14/05 |
| 2 | S534 not S532 | US-PGPUB; USPAT | 3/14/05 |
| 0 | S531 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di US-PGPUB; USPAT | 3/14/05 |
| 13 | S531 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di US-PGPUB; USPAT | 3/14/05 |
| 12 | S531 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di US-PGPUB; USPAT | 3/14/05 |
| 7 | S528 and (@ad<"20040311" or @rlad<"20040311") | US-PGPUB; USPAT | 3/14/05 |
| 7 | S526 and (@ad<"20040311" or @rlad<"20040311")) | US-PGPUB; USPAT | 3/14/05 |
| 0 | S517 not S515 | US-PGPUB; USPAT | 3/14/05 |
| 2 | S516 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di US-PGPUB; USPAT | 3/14/05 |
| 2 | S516 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di US-PGPUB; USPAT | 3/14/05 |
| 2 | S514 and ( photo$1detector or ((photo or light or image or radiation) adj (detector or di US-PGPUB; USPAT | 3/14/05 |
| 24 | S511 not (S505 or S504) | US-PGPUB; USPAT | 3/14/05 |
| 22 | S506 and (("257"/$3.ccls.) or ("438"/$3.ccls.)) | US-PGPUB; USPAT | 3/14/05 |
| 36 | S505 not S504 | US-PGPUB; USPAT | 3/14/05 |
| 18 | S501 not S499 | US-PGPUB; USPAT | 3/14/05 |
| 8 | 6510195 "6426991" | US-PGPUB; USPAT | 3/14/05 |

| 1 | 20040222482 and (mask or masked or masking ) | US-PGPUB; USPAT | 3/14/05 |
| 11 | (peter and bui).in. | US-PGPUB; USPAT | 3/14/05 |
| 7 | ((back$1side or (back adj side)) with p$1type ) and S522 | US-PGPUB; USPAT | 3/14/05 |
| 6 | ((back$1side or (back adj side)) with p$1type ) and S498 | US-PGPUB; USPAT | 3/14/05 |
| 7 | ((back$1side or (back adj side)) with (front$1side or (front adj side)) with ( photo$1dete | US-PGPUB; USPAT | 3/14/05 |
| 43 | ((back$1side or (back adj side)) with (contact or electrode) ) and S498 | US-PGPUB; USPAT | 3/14/05 |
| 27 | ((back$1side or (back adj side)) with (contact or electrode or pad) ) and S509 | US-PGPUB; USPAT | 3/14/05 |
| 7 | ((back$1side or (back adj side)) with (contact or electrode or pad or ball or bump) ) anc | US-PGPUB; USPAT | 3/14/05 |
| 27 | ((back$1side or (back adj side)) with (contact or electrode or pad or ball or bump) ) anc | US-PGPUB; USPAT | 3/14/05 |
| 25 | ((back$1side or (back adj side) or bottom) with (mask or masked or masking) with (imp | US-PGPUB; USPAT | 3/14/05 |
| 3 | ((back$1side or (back adj side) or bottom) with (mask or masked or masking) with (imp | US-PGPUB; USPAT | 3/14/05 |
| 2 | ("6510195" "6426991").pn. | US-PGPUB; USPAT | 3/14/05 |
| 5 | ("5021854" | "5757057" | "5773829" | "6025585" | "6172370").PN. | US-PGPUB; USPAT; USOC | 3/14/05 |
| 2 | ("4903103" | "4914301").PN. | US-PGPUB; USPAT; USOC | 3/14/05 |
| 23 | ("4783695" | "4835704" | "4836435" | "4878991" | "4897153" | "4930216" | "4933042" | US-PGPUB; USPAT; USOC | 3/14/05 |
| 26 | ("4783695" | "4835704" | "4836435" | "4878991" | "4897153" | "4930216" | "4933042" | US-PGPUB; USPAT; USOC | 3/14/05 |
| 6 | ("20020011639" | "4638165" | "5477075" | "5592523" | "5801430" | "6025585").PN. | US-PGPUB; USPAT; USOC | 3/14/05 |
| 8 | ( wafer with photo$1diode with package) and (@ad<"20040311" or @rlad<"20040311").US | US-PGPUB; USPAT | 3/14/05 |
| 44 | ( wafer with ( photo$1detector or ((photo or light or image or radiation) adj (detector or | US-PGPUB; USPAT | 3/14/05 |
| 39 | (spectrometer.ab.) and (("257"/$3.cor.) or ("438"/$3.cor.)) and (@ad<"20040311" or @US-PGPUB; USPAT | 3/14/05 |
| 2 | ( "6002163" "5888884" ).pn. | US-PGPUB; USPAT | 3/14/05 |
| 4 | 6510195 | US-PGPUB; USPAT | 3/14/05 |
| 2 | 5929499 | US-PGPUB; USPAT | 3/14/05 |
| 28 | 5021854 | US-PGPUB; USPAT; USOC | 3/14/05 |